

# Bala Krishna Reddy

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## EDUCATION

**University of North Carolina at Charlotte, North Carolina, US**

Jan 2023 - May 2024

Master's in Computer Science

Grade: 3.7/4.0

Course work: Machine Learning, Data Structures and Algorithms, Network Based Application Development, Big Data Analytics, Database Systems, Intelligent Systems, Computer Networks, Information Visualization, Data Privacy.

## PROFESSIONAL SUMMARY

- Experienced ERP Programmer Analyst with a strong background in Oracle Fusion Cloud data extraction and BI report creation. Proven track record in delivering complex projects, including OCR, online education platforms. Proficient in C, Python, Java, HTML, CSS, Node.js, React.js, Flask, Oracle, MySQL, and MongoDB. Demonstrates strong analytical and problem-solving skills with a collaborative approach to achieving goals. To help an exciting company succeed, I'm looking for a position where I can put my technological skills to use.

## EXPERIENCE

**Cognizant Technology Solutions - Programmer Analyst**

Jan 2021 - Jan 2023

Project Name : ResMed DE Oracle Steady

Bangalore, India

- The job entails extracting data from Oracle Fusion Cloud in the SCM, HCM, and ERP modules using SQL/PL SQL queries and creating BI reports. I've used BI Publisher to create Business Intelligence reports.
- Implemented Oracle Fusion Procurement, enhancing procurement efficiency.
- Experienced with Oracle Fusion Cloud's ETL, SQL/PLSQL queries, ESS jobs, E-text templates, Rest API's, SoapUI, Postman, FBDI, HCM extract, and BI reports.
- Developed complex reports and dashboards using Oracle Business Intelligence Publisher, providing actionable insights to stakeholders.
- Key setups like Flex fields, Organization, Inventory parameters, UOM, sub inventory, Item attribute control, Item Template and Transaction type.
- Developed Work Order Interface to import discrete job information into oracle apps base tables.

## PROJECTS

### Trade Project

- I developed a secure and efficient trade management system using technologies such as Node.js, Express, MongoDB, REST API, JWT, and Swagger UI. The objective was to streamline the trading process by implementing robust features like JWT-based authentication, trade creation and management modules, user registration and profile management, and comprehensive data validation.
- Responsibilities included designing RESTful APIs, implementing JWT-based authentication, managing MongoDB schemas, and documenting APIs with Swagger UI. Enhanced system security and user experience through effective data handling and seamless transactions.
- Successfully deployed a reliable trade management system, improving transaction security and user experience.
- Technologies Used: Node.js, Express, MongoDB, REST API, JWT Authentication, Swagger UI

### Optical Character Recognition For Handwritten Images

- Implemented an Optical Character Recognition (OCR) system to automate the extraction of text from scanned documents, enhancing data accessibility and usability. Utilized advanced technologies including the Tesseract Engine for accurate text recognition, Google Colab for collaborative development and GPU acceleration, OpenCV for image pre-processing, and TensorFlow/Keras for deep learning-based character recognition models. Integrated the system into a Flask-based web application, enabling both online and offline text recognition functionalities.
- Technologies Used: Tesseract Engine, Google collab, Opencv, Tensorflow, keras, flask.

### Online Education website

- Developed an online education platform with a user-friendly interface and secure MySQL database backend. Implemented user authentication using HTML, CSS, JavaScript, XML, JDBC, and Servlets on Apache Tomcat. Managed data exchange and storage with XAMPP, demonstrating proficiency in full-stack web development and database management.
- Technologies Used: XAMPP, Apache Tomcat, HTML, CSS, Javascript, XML, JDBC, Servlets.

## TECHNICAL SKILLS

**Programming languages:** C/C++, Python, Java

**Web Technologies:** ReactJS, JavaScript, HTML, CSS, Flask, JSP, JDBC, XML, Servlets

**Databases and Tools:** SQL, PL/SQL, ETL, Oracle, Hadoop, Postgres, MongoDB, Git, XAMPP, Apache Tomcat, Heroku, Postman, RestAPI, SoapUI

**ML/AI:** Pytesseract, Tensorflow, Keras, Pytorch, Numpy, Pandas, Matplotlib